

Application Serial No. 09/751,208
Attorney's Docket No.:17342-002001

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) An apparatus for measuring dimensions of ~~an object~~ a human being comprising:

a source of microwave signals having a predetermined amplitude and frequency, including an array of microwave radiating antennas, spaced from one another along a first direction;

at least one microwave receiver antenna which is located spaced from said radiating antennas, to receive radiated microwave signals that have passed through a space;

a processor that evaluates an output from said microwave receiver; and

a movement part which moves said radiating antennas along a second direction which is substantially orthogonal to said first direction during a time of scanning, in which said processor calculates one or more of the following measurements of the human being's: (A) height; (B) head size; (C) neck; (D) chest; (E) waist; (F) hips; (G) inseam; and (H) sleeve.

2. (Cancelled)

Application Serial No. 09/751,208
Attorney's Docket No.:17342-002001

3. (Previously presented) The apparatus of claim 1, in which said radiating antennas are horizontally polarized.

4. (Previously presented) The apparatus of claim 1, in which such said at least one of said radiating antennas or receiving antennas comprises an antenna array of a plurality of miniaturized antennas.

5. (Previously presented) The apparatus of claim 4, in which each of said miniature antennas are horizontally polarized.

6. (Cancelled)

7. (Previously presented) The apparatus of claim 1, wherein said radiating antennas are arranged along a circular configuration.

8. (Cancelled)

9. (Cancelled)

Application Serial No. 09/751,208
Attorney's Docket No.:17342-002001

10. (Original) The apparatus of claim 1, wherein such processor means comprises a computer.

11. (Currently amended) The apparatus of claim 1 An apparatus for measuring dimensions of an object comprising:

a source of microwave signals having a predetermined amplitude and frequency, including an array of microwave radiating antennas, spaced from one another along a first direction;

at least one microwave receiver antenna which is located spaced from said radiating antennas, to receive radiated microwave signals that have passed through a space;

a processor that evaluates an output from said microwave receiver; and

a movement part which moves said radiating antennas along a second direction which is substantially orthogonal to said first direction during a time of scanning, further comprising: (A) at least one server first computer unit; (B) a means for relaying said measured dimensions from said processor means to said at least one server unit; and (C) a means second computer for relaying said measured dimensions from said at least one server unit to at least one user.

Application Serial No. 09/751,208
Attorney's Docket No.: 17342-002001

12-13. (Cancelled)

14. (Currently amended) ~~The method of claim {{12}} 20 A~~
method, comprising:

transmitting a microwave signal through a specified area
through which a human subject is intended to pass;
determining locations where the microwave signal has been
blocked by the human subject;
using said determined locations to uniquely identify an
individual, wherein said using comprises obtaining at least one
measurement value which is selected from the group consisting of
the human being's: (A) height; (B) head size; (C) neck; (D)
chest; (E) waist; (F) hips; (G) inseam; and [(D)] (H) sleeve
size.

15-16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

Application Serial No. 09/751,208
Attorney's Docket No.:17342-002001

20. (Currently amended) A method, comprising:
transmitting a microwave signal through a specified area
through which a human subject is intended to pass;
determining locations where the microwave signal has been
blocked by the human subject;
using said determined locations to uniquely identify an
individual, wherein said using comprises determining body
measurements using said locations, and determining ratios
between different body measurements to carry out said unique
identifying.

21. (Cancelled)

22. (Previously presented) A method as in claim 20,
wherein said transmitting a microwave signal comprises forming
an array of microwave radiators along a first substantially
linear direction, forming an array of microwave receivers along
said first direction to receive microwave radiated by said
microwave radiators; and simultaneously moving said microwave
radiators and said microwave receivers along a second linear
direction that is substantially orthogonal to said first linear
direction.

Application Serial No. 09/751,208
Attorney's Docket No.:17342-002001

23. (Previously presented) A method as in claim 22, wherein said radiators and receivers are each located along the perimeter of a hollow disk which is linear in said first direction, and round in outer circumference.

24. (Previously presented) A method as in claim 22, wherein said radiators and receivers are each located along a substantially straight line.

25. (Previously presented) A method as in claim 1, wherein said processing evaluates the output from the microwave receiver to determine characteristics of a human located in said space, which has been scanned by said microwave signals, and to uniquely identify said human.